

Sterilair PRO

Device for air sterilization

Biological risk

Airborne contamination

Airborne contamination has always been a serious problem in our society, in fact, many diseases are transmitted through airborne pathways. Meningitis, diphtheria, tuberculosis, measles, rubella, mumps, right down to simple flu, colds and the new forms of flu that have arisen over the last few years, such as bird flu and swine flu.

In some environments airborne diffusion is particularly critical, normally we think of all those environments where there is a **high concentration or turnover of people (public places, meeting places, schools, nurseries etc.)**, or healthcare or surgical environments. Some healthcare environments take on even more critical importance, for example dental environments, **where the sprays and ultrasonic cleaners used create a greater diffusion** of micro-particles that are then carried into the environment. All these infections are becoming more and more wide-spread, so much that in some cases they are even defined as pandemics, which can cause high costs and considerable social problems. **The use of environmental sterilizers finds an immediate use within healthcare to reduce the risk of the transmission of airborne viruses**, on the basis of the recommendations outlined by the CDC (Centers of Disease Control and Prevention), but **such devices can also be used in all environments.**

Controlled ultraviolet radiation

There are various ways of decontaminating air, for example free ultraviolet radiation, chemical methods that use iodoforms, clorexidine and quaternary ammonium nebulized with the appropriate equipment. **Although considered effective, these techniques have a temporary effect, in fact they are of no use in moments when the operator is absent and they are in a completely inactive state. The most suitable and absolutely most efficient method is certainly the use of ultraviolet radiation at controlled wave-lengths.**

This has an intense microbicide function in the face of numerous micro-organisms. This acts by blocking the reproductive capacity of the micro-organisms by altering their chromosomes. No micro-organisms exist that are immune to germicidal radiation: spores, bacteria, mould, yeasts are eradicated by this radiation, even viruses undergo the destruction of their DNA. **The great advantage of our system lies in its absolute lack of danger (as certified) to man due to the minimal leakage of UV-C radiation from the unit.**



Ask the expert

Who needs this?

All dental and medical surgeries.

Why SterilAir PRO?

- It reduces the risk of operator contamination, as required by the Consolidated Safety Act.
- It reduces or eliminates costs and loss of earnings, as a result of long absences due to illness.
- It reduces or eliminates risks to patients and the population as a whole.
- It provides a bacteriologically pure environment.



Art. 210S
SterilAir Pro - Wall mounted version

Art. 212S
SterilAir Pro - Stand mount version

Frame and click! Use your mobile phone to get further information about this issue.





SterilAir PRO

Safeguard your professional image and your prestige, by protecting your health and that of you colleagues and patients. SterilAir PRO is the first air sterilization system. SterilAir PRO is an air sterilizing appliance which guarantees the elimination of all microorganisms including spores. The air is transported into the sterilization chamber inside the device, which, by irradiation eliminates the entire microbial load present in the air. This device can run continuously also in the presence of people, ensuring maximum safeguarding of the operators. SterilAir PRO is simple, silent and ergonomic.

Functioning

Its functioning is based on a system of forced ventilation closed loop. The air drawn into the module first passes through a filter, mechanically positioned, within the inlet entrance. Here the coarser pollutants are blocked, preventing the fouling of the germicide lamps. Then the air is forced to pass in direct contact with mercury vapor tubes that, thanks to the emission of the UV-C, carry out the maximum germicidal action. The high reflectivity shielding action of the housing concentrates the reflections of the UV-C radiation. The air is subsequently expelled through the nozzle output, thus leading to an effective microbial killing.

The system

The great advantage consists in the absolute lack of danger for the operator since there is the minimum emission of UV-C radiations from the unit. The device can effectuate a continuous air disinfection treatment (120 m³/h). It's possible to carry out a demolition of microbiologic pollution of the air in every room, during every productive phase without any damage for operator's health. After about three hours from installation 90% of demolition of bacterial charge in the air.



SterilAir PRO

Width	18 cm
Height	125 cm
Depth	8 cm
Weight	7 Kg
Mains voltage	230V 50 Hz
Power absorption	110 W
Air capacity	100 m ³ /h
Operation	Continue
Wavelength	254 nm
UV-C tube substitution	8000 hours (1 year)
Equipment	Pre -filter inside aspiration vent Air vents not against the current
Lamp	n.4 UVC tubes 25W - T8 G13 Philips TUV (7 W UVGI)
Structure	Alluminio UVC riflettente
UV-C rays external output	none
Danger	none
Ozone output	none
Colour	Natural and anodized
Installation	Wall mounted

